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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/810,601B

DATE: 03/10/2003

TIME: 11:59:00

Input Set : A:\D2947CIP\_Sequence\_030220.txt  
 Output Set: N:\CRF4\03102003\I810601B.raw

3 <110> APPLICANT: Allergan Sales, Inc.  
 4       Donovan, Stephen  
 6 <120> TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR TREATING GONADOTROPHIN RELATED  
 ILLNESSES  
 8 <130> FILE REFERENCE: D-2947-CIP  
 10 <140> CURRENT APPLICATION NUMBER: 09/810,601B  
 11 <141> CURRENT FILING DATE: 2001-03-15  
 13 <150> PRIOR APPLICATION NUMBER: 09/692,811  
 14 <151> PRIOR FILING DATE: 2000-10-20  
 16 <160> NUMBER OF SEQ ID NOS: 52  
 18 <170> SOFTWARE: PatentIn version 3.1  
 20 <210> SEQ ID NO: 1  
 21 <211> LENGTH: 10  
 22 <212> TYPE: PRT  
 23 <213> ORGANISM: Homo sapiens  
 25 <220> FEATURE:  
 26 <221> NAME/KEY: MISC\_FEATURE  
 27 <222> LOCATION: (1)..(1)  
 28 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu  
 31 <400> SEQUENCE: 1  
 OK> 33 Xaa His Trp Ser Tyr Gly Leu Arg Pro Gly  
 34 1                   5                   10  
 37 <210> SEQ ID NO: 2  
 38 <211> LENGTH: 10  
 39 <212> TYPE: PRT  
 40 <213> ORGANISM: Artificial Sequence  
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 43 <223> OTHER INFORMATION: Gonadotrophin Release Hormone Analogue  
 45 <220> FEATURE:  
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 48 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu  
 51 <220> FEATURE:  
 52 <221> NAME/KEY: MISC\_FEATURE  
 53 <222> LOCATION: (10)..(10)  
 54 <223> OTHER INFORMATION: Xaa at position 10 is Gly-NH2  
 57 <400> SEQUENCE: 2  
 OK> 59 Xaa His Trp Ser Tyr Gly Leu Arg Pro Xaa  
 60 1                   5                   10  
 63 <210> SEQ ID NO: 3  
 64 <211> LENGTH: 9  
 65 <212> TYPE: PRT  
 66 <213> ORGANISM: Artificial Sequence  
 68 <220> FEATURE:

ENTERED

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69 <223> OTHER INFORMATION: Gonadotrophin Release Hormone Analogue  
71 <220> FEATURE:

72 <221> NAME/KEY: MISC\_FEATURE  
73 <222> LOCATION: (1)..(1)

74 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu  
77 <220> FEATURE:

78 <221> NAME/KEY: MISC\_FEATURE  
79 <222> LOCATION: (9)..(9)

80 <223> OTHER INFORMATION: Xaa at position 9 is proline-ethylamide

83 <400> SEQUENCE: 3

W-> 85 Xaa His Trp Ser Tyr Gly Leu Arg Xaa *OK*  
86 1 5

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91 <212> TYPE: PRT

92 <213> ORGANISM: Artificial Sequence

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95 <223> OTHER INFORMATION: Gonadotrophin Release Hormone Analogue

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98 <221> NAME/KEY: MISC\_FEATURE

99 <222> LOCATION: (1)..(1) *10*

100 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu

103 <220> FEATURE:

104 <221> NAME/KEY: MISC\_FEATURE

105 <222> LOCATION: (10)..(10)

106 <223> OTHER INFORMATION: Xaa at position 10 is Aza-Gly-NH2

109 <400> SEQUENCE: 4

W-> 111 Xaa His Trp Ser Tyr Gly Leu Arg Pro Xaa

112 1 5 10

115 <210> SEQ ID NO: 5

116 <211> LENGTH: 10

117 <212> TYPE: PRT

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123 <220> FEATURE:

124 <221> NAME/KEY: MISC\_FEATURE

125 <222> LOCATION: (1)..(1)

126 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu

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130 <221> NAME/KEY: MISC\_FEATURE

131 <222> LOCATION: (10)..(10)

132 <223> OTHER INFORMATION: Xaa at position 10 is Gly-NH2

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W-> 137 Xaa His Trp Ser Tyr Lys Leu Arg Pro Xaa

138 1 5 10

141 <210> SEQ ID NO: 6

142 <211> LENGTH: 9

143 <212> TYPE: PRT

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Input Set : A:\D2947CIP Sequence 030220.txt  
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144 <213> ORGANISM: Artificial Sequence  
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155 <220> FEATURE:  
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158 <223> OTHER INFORMATION: Xaa at position 9 is proline-ethylamide  
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164 1 5  
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182 <221> NAME/KEY: MISC\_FEATURE  
183 <222> LOCATION: (10)..(10)  
184 <223> OTHER INFORMATION: Xaa at position 10 is Aza-Gly-NH2  
187 <400> SEQUENCE: 7  
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190 1 5 10  
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196 <213> ORGANISM: Artificial Sequence  
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203 <222> LOCATION: (1)..(1)  
204 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu  
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208 <221> NAME/KEY: MISC\_FEATURE  
209 <222> LOCATION: (6)..(6)  
210 <223> OTHER INFORMATION: Xaa at position 6 is D-Lys  
213 <220> FEATURE:  
214 <221> NAME/KEY: MISC\_FEATURE  
215 <222> LOCATION: (10)..(10)  
216 <223> OTHER INFORMATION: Xaa at position 10 is Gly-NH2

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Input Set : A:\D2947CIP Sequence 030220.txt  
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219 <400> SEQUENCE: 8  
WJK-> 221 Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa  
222 1 5 10  
225 <210> SEQ ID NO: 9  
226 <211> LENGTH: 9  
227 <212> TYPE: PRT  
228 <213> ORGANISM: Artificial Sequence  
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231 <223> OTHER INFORMATION: Gonadotrophin Release Hormone Analogue  
233 <220> FEATURE:  
234 <221> NAME/KEY: MISC\_FEATURE  
235 <222> LOCATION: (1)..(1)  
236 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu  
239 <220> FEATURE:  
240 <221> NAME/KEY: MISC\_FEATURE  
241 <222> LOCATION: (6)..(6)  
242 <223> OTHER INFORMATION: Xaa at position 6 is D-Lys  
245 <220> FEATURE:  
246 <221> NAME/KEY: MISC\_FEATURE  
247 <222> LOCATION: (9)..(9)  
248 <223> OTHER INFORMATION: Xaa at position 9 is proline-ethylamide  
251 <400> SEQUENCE: 9  
WJK-> 253 Xaa His Trp Ser Tyr Xaa Leu Arg Xaa  
254 1 5  
257 <210> SEQ ID NO: 10  
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259 <212> TYPE: PRT  
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265 <220> FEATURE:  
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267 <222> LOCATION: (1)..(1)  
268 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu  
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273 <222> LOCATION: (6)..(6)  
274 <223> OTHER INFORMATION: Xaa at position 6 is D-Lys  
277 <220> FEATURE:  
278 <221> NAME/KEY: MISC\_FEATURE  
279 <222> LOCATION: (10)..(10)  
280 <223> OTHER INFORMATION: Xaa at position 10 is Aza-Gly-NH2  
283 <400> SEQUENCE: 10  
WJK-> 285 Xaa His Trp Ser Tyr Xaa Leu Arg Pro Xaa  
286 1 5 10  
289 <210> SEQ ID NO: 11  
290 <211> LENGTH: 10  
291 <212> TYPE: PRT  
292 <213> ORGANISM: Artificial Sequence

RAW SEQUENCE LISTING DATE: 03/10/2003  
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Input Set : A:\D2947CIP\_Sequence\_030220.txt  
 Output Set: N:\CRF4\03102003\I810601B.raw

294 <220> FEATURE:  
 295 <223> OTHER INFORMATION: Gonadotrophin Release Hormone Analogue  
 297 <220> FEATURE:  
 298 <221> NAME/KEY: MISC\_FEATURE  
 299 <222> LOCATION: (1)..(1)  
 300 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu  
 303 <220> FEATURE:  
 304 <221> NAME/KEY: MISC\_FEATURE  
 305 <222> LOCATION: (6)..(6)  
 306 <223> OTHER INFORMATION: Xaa at position 6 is Ornithine  
 309 <220> FEATURE:  
 310 <221> NAME/KEY: MISC\_FEATURE  
 311 <222> LOCATION: (10)..(10)  
 312 <223> OTHER INFORMATION: Xaa at position 10 is Gly-NH2  
 315 <400> SEQUENCE: 11

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318 1 5 10  
 321 <210> SEQ ID NO: 12  
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 323 <212> TYPE: PRT  
 324 <213> ORGANISM: Artificial Sequence  
 326 <220> FEATURE:  
 327 <223> OTHER INFORMATION: Gonadotrophin Release Hormone Analogue  
 329 <220> FEATURE:  
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 331 <222> LOCATION: (1)..(1)  
 332 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu  
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 337 <222> LOCATION: (6)..(6)  
 338 <223> OTHER INFORMATION: Xaa at position 6 is Ornithine  
 341 <220> FEATURE:  
 342 <221> NAME/KEY: MISC\_FEATURE  
 343 <222> LOCATION: (9)..(9)  
 344 <223> OTHER INFORMATION: Xaa at position 9 is proline-ethylamide  
 347 <400> SEQUENCE: 12

Wl-> 349 Xaa His Trp Ser Tyr Xaa Leu Arg Xaa

350 1 5  
 353 <210> SEQ ID NO: 13  
 354 <211> LENGTH: 10  
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 356 <213> ORGANISM: Artificial Sequence  
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 359 <223> OTHER INFORMATION: Gonadotrophin Release Hormone Analogue  
 361 <220> FEATURE:  
 362 <221> NAME/KEY: MISC\_FEATURE  
 363 <222> LOCATION: (1)..(1)  
 364 <223> OTHER INFORMATION: Xaa at position 1 is PyroGlu  
 367 <220> FEATURE:

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 03/10/2003  
PATENT APPLICATION: US/09/810,601B TIME: 11:59:01

Input Set : A:\D2947CIP\_Sequence\_030220.txt  
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**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 1  
Seq#:2; Xaa Pos. 1, 10  
Seq#:3; Xaa Pos. 1, 9  
Seq#:4; Xaa Pos. 1, 10  
Seq#:5; Xaa Pos. 1, 10  
Seq#:6; Xaa Pos. 1, 9  
Seq#:7; Xaa Pos. 1, 10  
Seq#:8; Xaa Pos. 1, 6, 10  
Seq#:9; Xaa Pos. 1, 6, 9  
Seq#:10; Xaa Pos. 1, 6, 10  
Seq#:11; Xaa Pos. 1, 6, 10  
Seq#:12; Xaa Pos. 1, 6, 9  
Seq#:13; Xaa Pos. 1, 6, 10  
Seq#:14; Xaa Pos. 1, 6, 10  
Seq#:15; Xaa Pos. 1, 6, 9  
Seq#:16; Xaa Pos. 1, 6, 10  
Seq#:17; Xaa Pos. 1, 10  
Seq#:18; Xaa Pos. 1, 9  
Seq#:19; Xaa Pos. 1, 10  
Seq#:20; Xaa Pos. 1, 6, 10  
Seq#:21; Xaa Pos. 1, 6, 9  
Seq#:22; Xaa Pos. 1, 6, 10  
Seq#:23; Xaa Pos. 1, 10  
Seq#:24; Xaa Pos. 1, 9  
Seq#:25; Xaa Pos. 1, 10  
Seq#:26; Xaa Pos. 1, 6, 10  
Seq#:27; Xaa Pos. 1, 6, 9  
Seq#:28; Xaa Pos. 1, 6, 10  
Seq#:29; Xaa Pos. 1, 10  
Seq#:30; Xaa Pos. 1, 9  
Seq#:31; Xaa Pos. 1, 10  
Seq#:32; Xaa Pos. 1, 6, 10  
Seq#:33; Xaa Pos. 1, 6, 9  
Seq#:34; Xaa Pos. 1, 6, 10  
Seq#:35; Xaa Pos. 1, 10  
Seq#:36; Xaa Pos. 1, 9  
Seq#:37; Xaa Pos. 1, 10  
Seq#:38; Xaa Pos. 1, 6, 10  
Seq#:39; Xaa Pos. 1, 6, 9  
Seq#:40; Xaa Pos. 1, 6, 10  
Seq#:41; Xaa Pos. 1, 6, 9  
Seq#:42; Xaa Pos. 1, 6, 10  
Seq#:43; Xaa Pos. 1, 6, 9  
Seq#:44; Xaa Pos. 1, 6, 10  
Seq#:45; Xaa Pos. 1, 6, 9  
Seq#:46; Xaa Pos. 1, 6, 9  
Seq#:47; Xaa Pos. 1, 6, 10  
Seq#:48; Xaa Pos. 1, 6, 9  
Seq#:49; Xaa Pos. 1, 6, 10  
Seq#:50; Xaa Pos. 1, 6, 9  
Seq#:51; Xaa Pos. 2, 3, 5

## VERIFICATION SUMMARY

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Input Set : A:\D2947CIP Sequence 030220.txt

Output Set: N:\CRF4\03102003\I810601B.raw

L:33 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:59 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0  
L:85 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:0  
L:111 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:0  
L:137 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0  
L:163 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:0  
L:189 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0  
L:221 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:0  
L:285 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10 after pos.:0  
L:317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11 after pos.:0  
L:349 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:0  
L:381 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:13 after pos.:0  
L:413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:0  
L:445 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15 after pos.:0  
L:477 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:0  
L:503 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:0  
L:529 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0  
L:555 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0  
L:587 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0  
L:619 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:0  
L:651 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:0  
L:677 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:23 after pos.:0  
L:703 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:24 after pos.:0  
L:729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0  
L:761 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0  
L:793 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0  
L:825 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0  
L:851 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0  
L:877 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0  
L:903 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0  
L:935 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0  
L:967 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0  
L:999 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0  
L:1025 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0  
L:1051 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0  
L:1077 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0  
L:1109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0  
L:1141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0  
L:1173 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0  
L:1275 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0  
L:1369 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:0